

## CASEA Bauprotec RHS-E - Lightweight Multi Purpose Render

CASEA Bauprotec RHS-E is a factory produced highly polymer modified render specially designed for hand and machine application produced to EN 998-1: 2003. It is manufactured from a controlled blend of selected aggregates, cement, polymers and other components to give a high quality weather resistant rendering product which is suitable for use in external rendering and internal plastering. The unique properties of this render makes it suitable for many purposes, such as adhesive bridge/key coat on difficult substrates, adhesive and fibreglass reinforcement base coat on insulation and cement particle boards.

- Lightweight - Multi Purpose
- Excellent Adhesion and Flexibility
- Machine or Hand Application
- High Yield
- Weather Resistant
- CE Marked
- EN 998-1:2003

### Field Of Application

A highly polymer modified render for facades and walls constructed with smooth and low absorbent materials. Adhesive and base coat on insulation and cement particle boards. The product's special composition allows the product to breathe and permits constant hygrometric exchange between the substrate and the environment.

### Substrate

Substrates to be rendered should be examined for contamination, deterioration, surface roughness, suction and strength. Dust and contamination such as residues of concrete release agents, gypsum plaster, paint, other coatings, organic growth, salts and efflorescence should be removed prior to rendering. Salts and efflorescence should be removed by dry brushing (non-metallic bristles). Other special precautions may need to be taken if this removal is not achievable. The line and flatness of the substrate should also be assessed to determine if the render can be applied to a uniform thickness or if dubbing out is required.

The substrate should be reasonably dry and free of frost, with a temperature of +5 °C or above at the time of rendering. It is important for the wall not to be too wet at the time of rendering. Walls that have recently been exposed to heavy rain should be allowed to dry out sufficiently before rendering is attempted.

### Preparation

Bauprotec RHS-E should only be applied to mature stable surfaces. A minimum of one month should be allowed following completion of the wall construction before render application commences. In slow drying situations, a longer interval should be allowed. All substrates must be clean, sound and dust free to achieve bond. The recommendations set out in EN 13914-1:2005 and BS 5262:1991 should be followed. It is essential that all steps are taken to ensure that a satisfactory bond is achieved between the render and the substrate.

### Instructions

Bauprotec RHS-E can be applied using all suitable spray rendering machines: G4, G5, m3, S48, MP25 or SP11 and can be transported on all pneumatic conveyor systems. When hand applied, mix for 5 minutes using a suitable electric mixer. In case of great unevenness in the substrate (e.g. rough stone masonry) the recesses require dubbing out.

When used as an adhesive bridge or key coat, apply 6mm thick and comb using a notched trowel or serrated straight edge. When used as a fibre glass reinforcement coat apply first a coat of >3mm, install mesh overlapping 100mm at the edges and trowel into the coat using a steel trowel. Apply second (levelling) coat of >3mm and finish using a steel float or spatula and rub smooth. The open time, after mixing, is approximately two hours. However, the open time greatly depends on the consistency of the render, the ambient temperature and the absorbency of the substrate.

### Application

During application the temperature must be between 5 - 30°C. In sunny weather, work should commence on the shady side of the building and be continued, following the sun to prevent the rendering drying out too rapidly.

### Practical Advice

Fibreglass mesh must be embedded into the render when applied on insulation and cement particle boards, in case of changes in substrate material and at stress points around openings.

### Storage

12 months under dry conditions.

### Disposal Considerations

13.1 Waste treatment methods: Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

### Safety

Caution. This product contains cement, which becomes alkaline when wet and may cause skin irritation. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Do not ingest. See CASEA Health and Safety Data Sheet for further information.

### Hazard Statements

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

### Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.

### Technical Information

|                            |                           |
|----------------------------|---------------------------|
| Dry Bulk Density           | 1100 kg/m <sup>3</sup>    |
| Compressive Strength       | CSIII                     |
| Adhesion                   | >0.08 N/mm <sup>2</sup>   |
| Capillary Water Absorption | W 2                       |
| Water Vapour Permeability  | μ < 10                    |
| Thermal Conductivity       | < 0.45 W/mK               |
| Yield                      | 1.10 kg/mm/m <sup>2</sup> |
| Water Demand               | 5.5-6 l per bag           |
| Reaction To Fire           | A1 Non Combustible        |

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|  | CASEA GmbH<br>Pontelstraße 3<br>99755 Ellrich<br>Germany |
| 10<br>CASEA-114 740<br>DIN EN 998-1:2010<br>Normal plaster mortar GP<br>Plastering of ceilings and walls inside and outside of buildings |  |
| Reaction to fire   | A1   |
| Durability   | NPD  |
| Dangerous Substances   | NPD  |

NPD Properties not determined as they are not relevant (No Performance Determined)

